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UTILITY
PATENT APPLICATION
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Attorney Docket No. 34183/233887

First Inventor or Application Identifier: Scheuber et al.

Title of Invention: METHOD AND APPARATUS FOR
PROVIDING TEXT ON PRINTED PRODUCTS

Express Mail Label No. EL836093258US

ADDRESS TO: **BOX PATENT APPLICATION
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Transmitted herewith for filing in the United States Patent Office is a patent application for:

Inventors: Markus Scheuber; Hans Frei

Assignee of this invention is Ferag AG

1. The Filing Fee has been calculated as shown below.
2. Applicant claims Small Entity Status. See 37 CFR 1.27.

J1040 U.S. PRO
09/876760
06/07/01

No. Filed	No. Extra	Small Entity Rate	Fee 0	Large Entity Rate	Fee 1
BASIC FEE			\$0		\$710
TOTAL CLAIMS:	14 - 20 = 0	X 9 = \$0		x 18 = \$0	
INDEP CLAIMS:	4 - 3 = 1	X 40 = \$0		x 80 = \$80	
[<input type="checkbox"/>] MULTIPLE DEPENDENT CLAIMS PRESENTED			+135 = \$		+270 = \$
*If the difference in Column 1 is less than zero, enter "0" in Column 2.			TOTAL \$		TOTAL \$ 790

The Commissioner is hereby authorized to credit overpayments or charge the following fees to Deposit Acct. No. 16-0605.

- a. Fees required under 37 CFR 1.16 (National filing fees).
- b. Fees required under 37 CFR 1.17 (National application processing fees).
- A check in the amount of \$ 790.00 for the filing fee is enclosed.
- The above filing fee will be paid along with Applicant(s) Response to the Notice to File Missing Parts.
3. Specification; Total Pages 17
4. 5 Sheets of Formal Drawing(s) (35 USC 113)
5. 2 Declarations and Power of Attorney; [Total Pages 6]
 - a. Newly executed (original or copy)
 - b. Copies from a prior application (37 CFR 1.63(d))
(for continuation/divisional with Box 18 completed)
 - i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) & 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76
7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)

8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. Computer Readable Copy (CRF)
 - b. Request for Transfer of Computer Readable Form of Sequence Listing under 37 CFR § 1.821(e) and MPEP 2422.05
 - c. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. Paper (Pages)
 - d. Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s) (including a check for the \$40.00 fee)
10. 37 CFR 3.73(b) Statement (*when there is an assignee*); Power of Attorney
11. English Translation Document (*if applicable*)
12. Information Disclosure Statement (IDS)/PTO-1449; 0 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) (*Should be specifically itemized*)
15. Certified Copy of Priority Document(s) (*if foreign priority is claimed*)
Foreign Priority is 1997 1150/97 Switzerland filed 5/16/97
16. Request and Certification for Non-publication under 35 U.S.C. 122(b)(2)(B)(i).
Applicant must attach form PTO/SB35 or its equivalent.
17. Request for Early Publication Under 37 CFR § 1.219. Fee of \$300.00 is enclosed.
18. If a **CONTINUING APPLICATION**, *check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:*
 Continuation Divisional Continuation in Part (CIP)
of prior Application No: 09/078,914; Filed May 14, 1998

Prior Application Information: Examiner M. Mayes Group/Art Unit: 1734

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

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Date of Deposit June 7, 2001

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Joyce D. Smith
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Fig.1

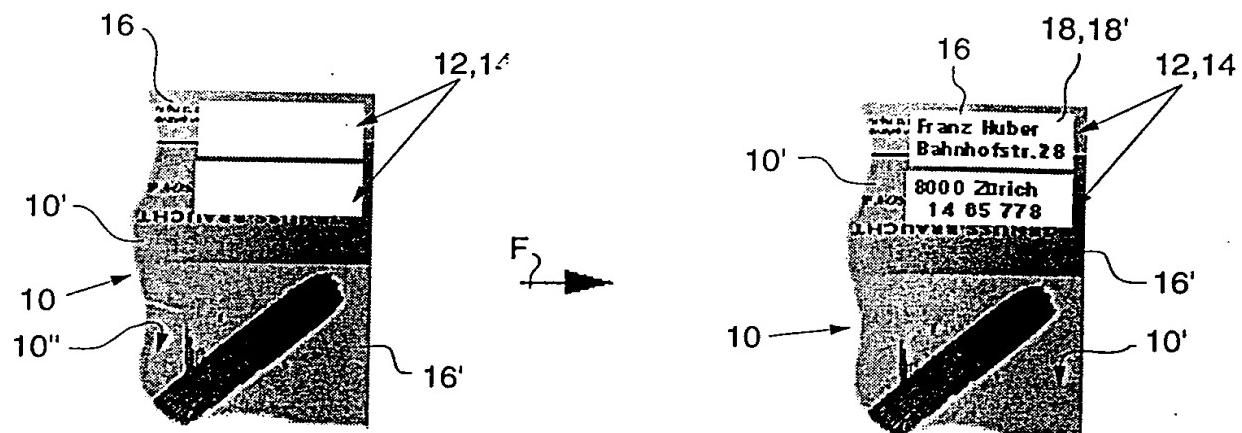


Fig.2

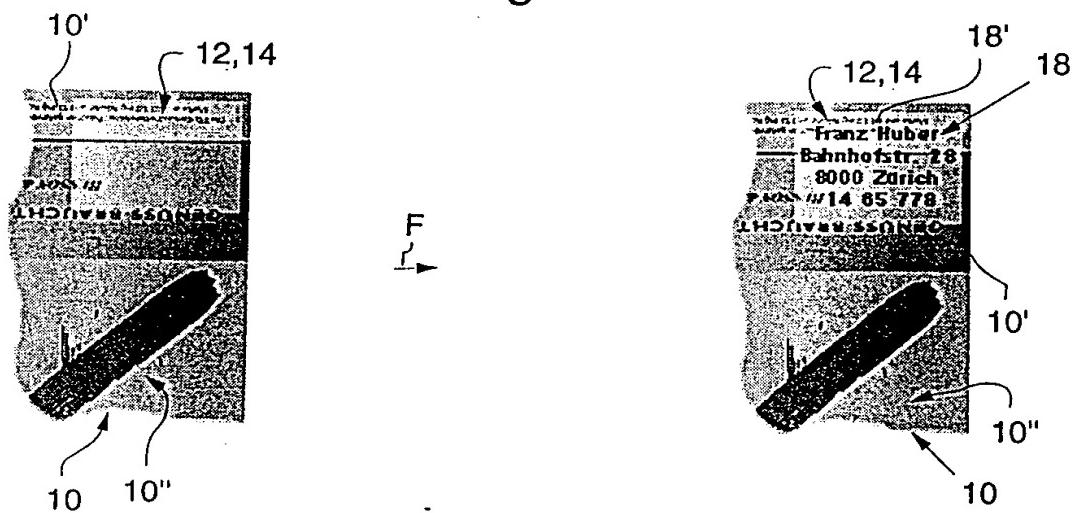


Fig.3

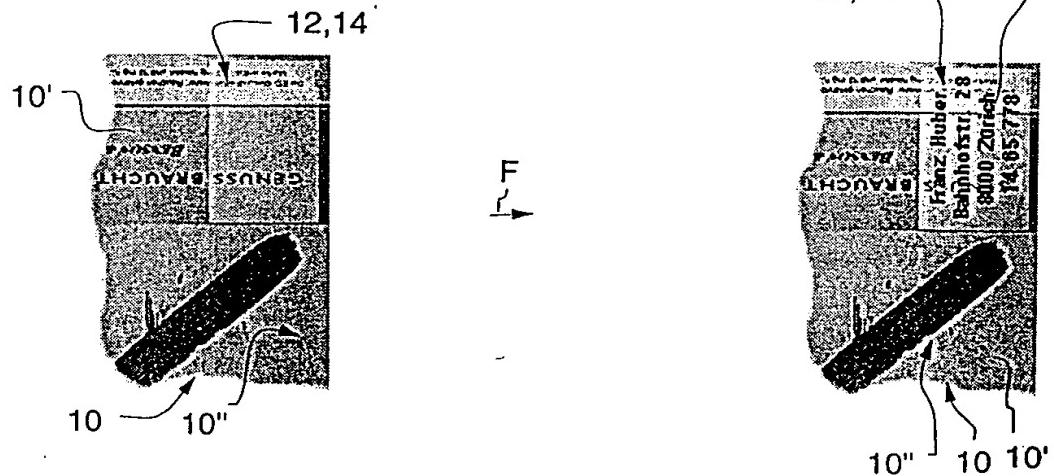


Fig.4

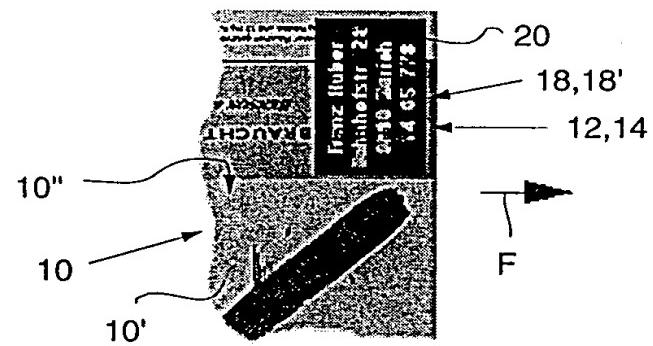
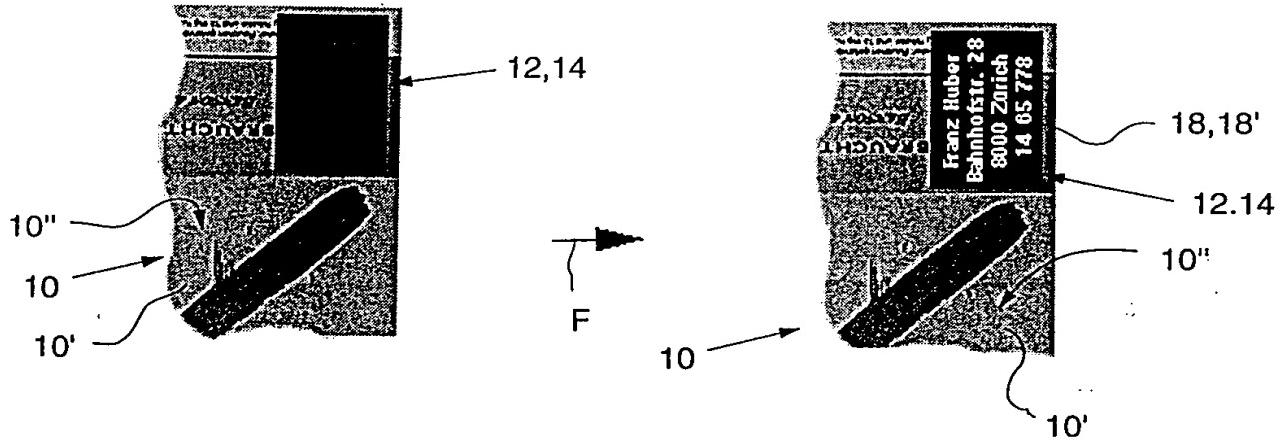


Fig.5

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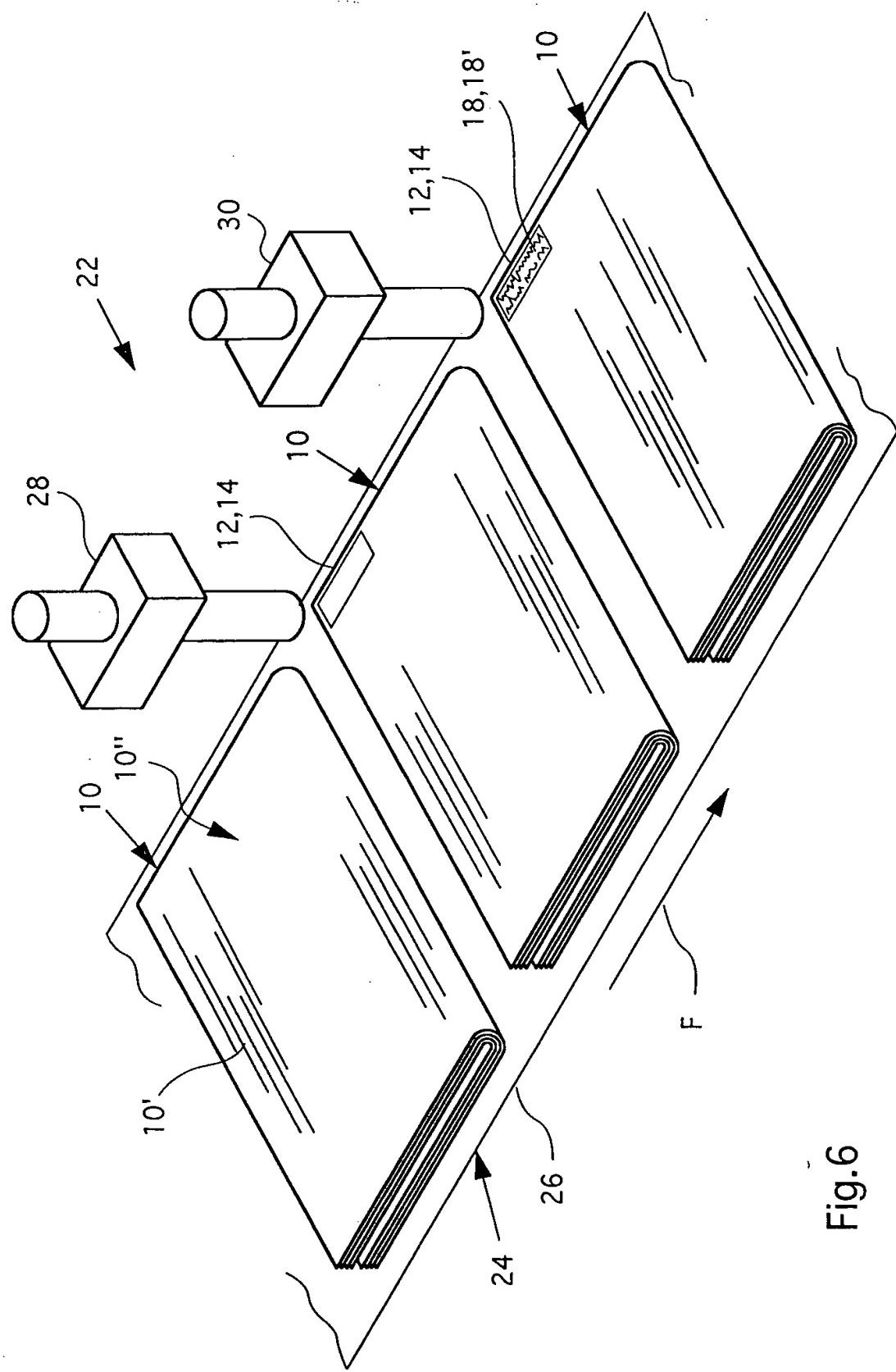


Fig.6

Fig.7

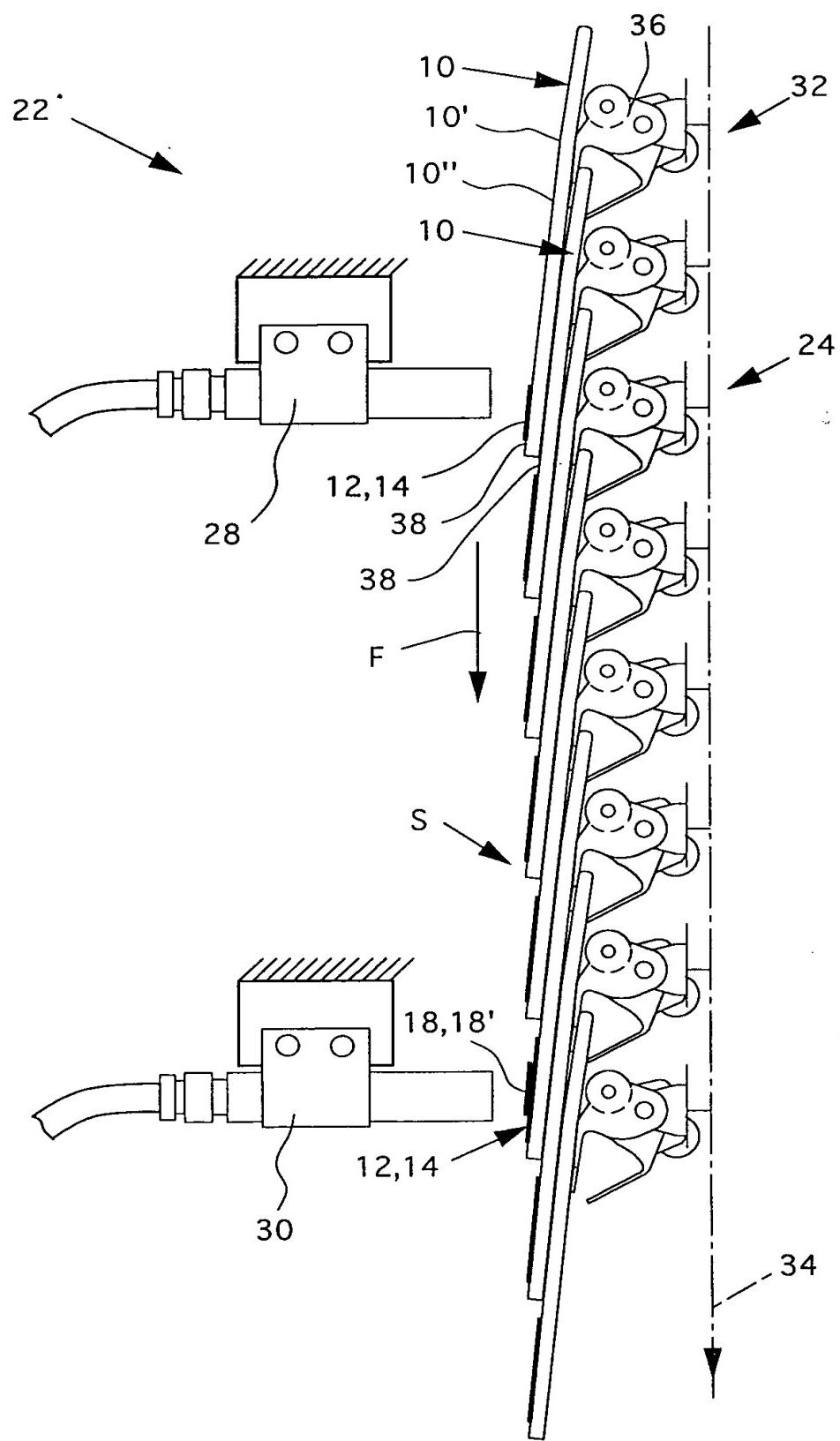
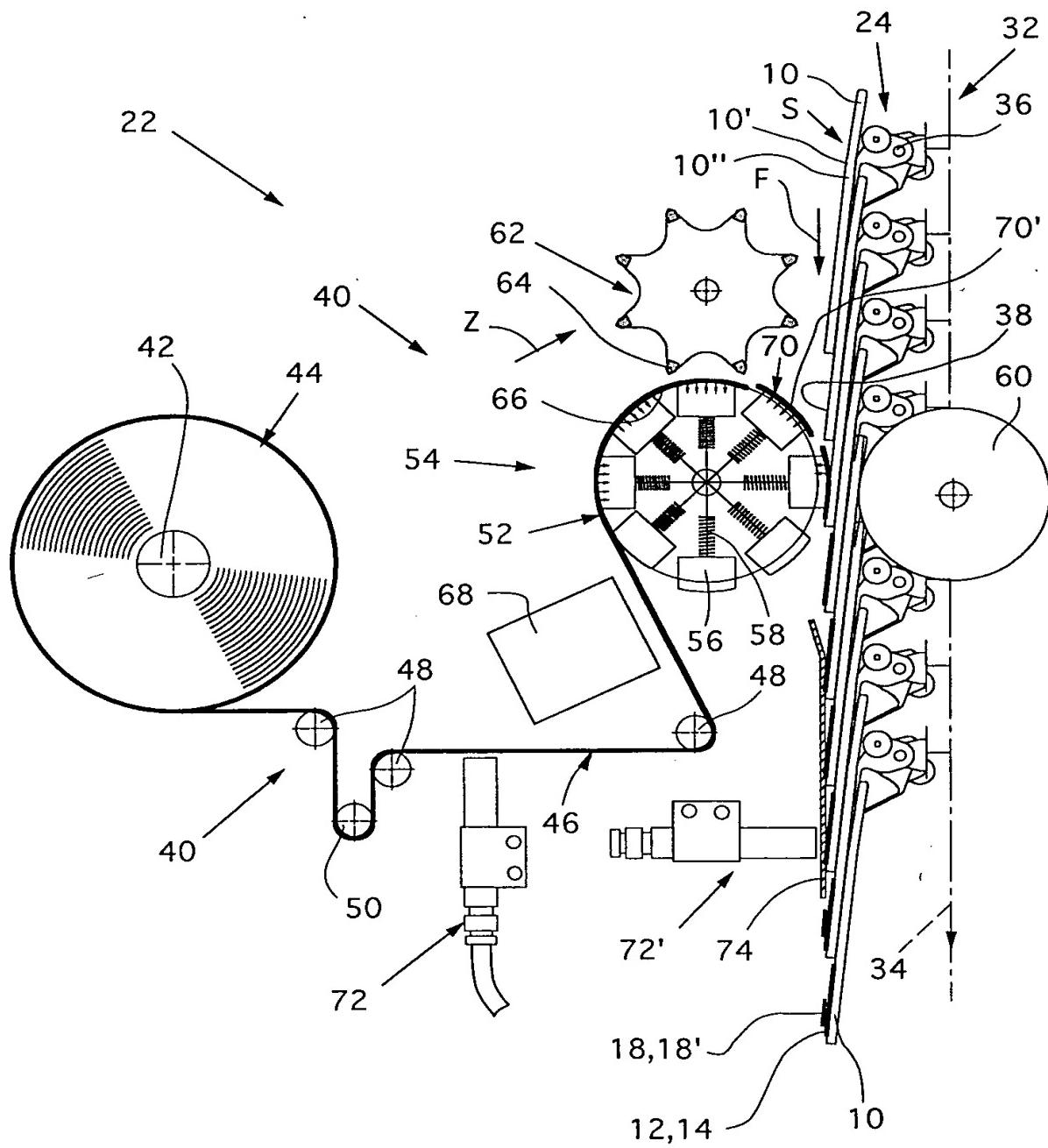


FIG.8
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Fig.8



**METHOD AND APPARATUS FOR
PROVIDING TEXT ON PRINTED PRODUCTS**

Cross Reference to Related Application

This is a division of U.S. Application No.
5 09/078,914, filed May 14, 1998, which is hereby
incorporated herein in its entirety by reference.

Background of the Invention

The present invention relates to a method of
10 providing text on printed products, and to an apparatus
for implementing the method.

EP-A-0 096 228 and the corresponding US Patent
No. 4,538,161 disclose an arrangement for addressing
newspapers, periodicals and similar printed products.
15 The arrangement has a conveying system which is designed
as a unit conveyor and which has clamps which are
arranged at intervals one behind the other, and with the
clamps each being configured to grip one printed product.
The conveying system guides the printed products past a
20 stationary ink-jet printer. A clock generator is
provided which is driven by the unit conveyor and which
emits a control signal for each clamp. The control
signal triggers in each case one printing operation of
the printer when a printed product passes through the
25 printing region of the printer.

A method of, and an apparatus for,
providing text on printed products are also known from

EP-A-0 709 218. In this apparatus, a conveying system moves the printed products, which overlap one another in an imbricated manner, past a first printing station in the conveying direction. The printing station applies 5 text to the outer side of the printed products which is directed towards it, in a text panel which is arranged in the border region which is exposed by the imbricated overlap. Before the printed products are guided past a second printing station, a border region of the second 10 outer side of the printed products is exposed, for example by being turned over. The second printing station then provides text on printed products in a further text panel in the border region of the second outer side.

15 A further method of, and an apparatus for, providing text on an inner side of folded printed products are disclosed in EP-A-0 709 326 and in a corresponding US Patent No. 5,596,932. In this case, the printed products are transported with their fold, which 20 runs approximately at right angles to the conveying direction, retained by means of clamps. An opening device moves the front and rear halves of the respective folded printed products apart from one another, with the result that a printing head can carry out the desired 25 text-applying operation on the inner side of the folded printed product.

These known methods and apparatuses are suitable, in particular, for providing text on printed products in a border region which does not contain any 30 printing. If the text or part thereof is located in the printed region of the printed products, there can be problems as far as the clarity and legibility of the information are concerned.

It is thus an object of the present invention

to develop the method of the described type such that the information which is to be applied to the printed products can be seen and read easily in all circumstances. It is also an object of the present invention to provide
5 apparatuses which are particularly suitable for implementing the method according to the invention.

Summary of the Invention

The above and other objects and advantages of
10 the present invention are achieved by the provision of a method and apparatus wherein the printed products are conveyed in an overlapping imbricated stream and such that a border region of each printed product is exposed by the imbricated overlap. A contrast panel, which forms
15 a text panel, is applied to the exposed border region of each printed product, and the contrast panel forms a contrast with respect to the information which is to be applied. This ensures that the information always appears in contrast with respect to its surroundings and
20 can thus be seen and read easily.

The method according to the invention is suitable, in particular, for providing text on printed products which are produced by means of gravure printing. In the case of these printed products, the printed
25 information often extends right up to the border of the printed sheets. The application of a contrast panel, which forms the text panel, allows the information to be seen and read easily, even when the printed information is of the same color as the text or is of a color which
30 does not form much of a contrast with respect to the text.

A particularly preferred embodiment of the method according to the invention utilizes a contrast panel which is partially transparent. Such a panel forms

a good contrast with respect to the information and also allows the printed information of the printed product to be seen and read when the contrast panel overlaps the printed information.

5

Brief Description of the Drawings

The present invention will now be explained in more detail with reference to exemplary embodiments illustrated in the drawings, in which, purely 10 schematically:

Figure 1 shows, on the left, part of a printed product to which, in a first step, two light-colored contrast panels have been applied and, on the right, the same part of the printed product, which, in a second step, has been provided with dark text in the contrast 15 panels;

Figure 2 shows, in the same illustration as Figure 1, the printed product parts, on the left, with a partially transparent contrast panel applied and, on the 20 right, with dark text in the contrast panel, the contrast panel and the text running in the conveying direction of the printed product;

Figure 3 shows the printed product part, on the left, with a partially transparent contrast panel applied 25 and, on the right, with dark text in the contrast panel, the contrast panel and the text running transversely with respect to the conveying direction;

Figure 4 shows, in the same illustration as Figure 1, the printed product, on the left, with a contrast panel applied using dark ink and, on the right, 30 with text applied in the contrast panel using light-colored ink;

Figure 5 shows part of the printed product with a contrast panel applied using dark ink, the characters

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which form the text having been left blank as the contrast panel was produced;

Figure 6 shows a perspective illustration of an apparatus having a conveying means designed as a belt conveyor, and having two printing stations for applying a contrast panel to the printed products and for providing text on the printed products in the contrast panel;

Figure 7 shows a view of an apparatus with a conveying means which is designed as a clamp-type transporter and is intended for transporting the printed products, and having two printing stations for applying a contrast panel to the printed products and for applying text to the contrast panel; and

Figure 8 shows a view of an apparatus having a conveying means which is designed as a clamp-type transporter and is intended for transporting the printed products, and having a labeling device for producing and adhesively bonding partially transparent labels, which form a contrast panel and are provided with text at a printing station.

Detailed Description of the Preferred Embodiments

Figure 1 shows a corner region of a printed product 10 which is transported continuously in the conveying direction F, said printed product being shown, on the left, after a first step and, on the right, after a second step for providing it with text. As is illustrated on the left in Figure 1, a surface 10" of the printed product 10, said surface being printed with printed information 10', has been provided, in the first step, with two contrast panels 14, which form a text panel 12. The text panels 12, which are arranged one beside the other, are of rectangular shape, the longer sides running in the conveying direction F. The printed

product 10 is printed right up to its borders 16, 16', the printed information 10' in the region of the text panels 12 being covered over by the contrast panel 14, which has been printed on using light-colored, preferably white, ink.

In a second step, the text panels 12 have been provided with information 18', in the present example with an address. The information 18' is printed onto the white contrast panel 14 using dark, preferably black, ink, see the printed product 10 illustrated on the right in Figure 1. The contrast panel 14 forms a contrast with respect to the text 18, with the result that the latter can be immediately seen and read easily. Moreover, the text panel 12 forms a contrast with respect to the printed information of the printed product.

The printed product 10 which is shown on the left in Figure 2 has been provided with a partially transparent contrast panel 14, which forms the text panel 12. The printed information 10' can also be seen in the contrast panel 14. It has proven particularly advantageous to print using partially transparent white ink; the latter has a milky white appearance and the printed information 10' can easily be seen through it. The printed product 10 which is shown on the right of Figure 2 is provided, in the partially transparent contrast panel 14, with the information 18', which forms the text 18, using dark, preferably black, ink. Tests have shown that, even on printed products 10 which have been printed using black ink and have a partially transparent light-colored contrast panel, black text 18 can be read easily without the printed information 10' being obliterated. In the case of the example shown in Figure 2, the contrast panel 14 is likewise rectangular, and the longer sides likewise run in the conveying direction F.

Figure 3 shows, on the left, the corner region of the printed product 10 with a printed-on contrast panel 14 which is likewise partially transparent and, on the right, the printed product 10 with black text 18 in the partially transparent contrast panel 14, analogously to Figure 2. In Figure 3, the rectangular contrast panel 14 is arranged such that its longer sides run at right angles to the conveying direction F.

Figure 4 shows, on the left, the printed product 10 with a dark, preferably black, contrast panel 14 applied in the first step. As Figure 4 shows on the right, the information 18', which forms the text 18, has then been printed onto the printed product 10 in the contrast panel 14, in the second step, using light-colored, preferably white, ink.

In the case of the printed product 10 which is shown in Figure 5, the contrast panel 14, which forms the text panel 12, and the text 18 have been produced in a single step. The characters 20 which form the information 18' were left blank as the contrast panel 14 was applied. Here too, the contrast panel 14 forms a contrast with respect to the printed information 10' in the region of the contrast panel 14.

Figure 6 shows a perspective illustration of a first embodiment of an apparatus 22 for the inventive operation of providing text on the printed products 10 according to Figures 1 to 5. The apparatus has a conveying means 24 with a belt conveyor 26 which is driven so as to circulate continuously in the conveying direction F. The multi-part, folded printed products 10, for example newspapers, periodicals or the like, are spaced apart from one another on the belt conveyor 26. Two printing stations 28, 30 are arranged above the belt conveyor 26 and spaced apart from one another in the

conveying direction **F**. The first printing station **28**, as seen in the conveying direction **F**, is intended for printing a contrast panel **14** onto a corner region of the printed surface **10"** of each printed product **10** which is moved past it. The second printing station **30**, which is arranged downstream of the first printing station **28**, is intended for printing the printed-product-specific information **18'**, for example an address, a number, a bar code or the like, into the contrast panel **14** of the printed products **10** which are moved past it. Of course, the colors of the inks applied by means of the first printing station **28** and by means of the second printing station **30** form a contrast.

If the printed products **10** are to be provided with text according to Figure 5, either one of the two printing stations **28, 30** is brought to a standstill or the apparatus **22** has only one printing station **28**.

The apparatus **22** which is shown in Figure 7 has a conveying means **24** which is designed as a clamp-type transporter **32**. Arranged on a drawing member **34**, which is driven continuously in the conveying direction **F**, are clamps **36**, which are spaced apart one behind the other and can be controlled individually and are intended for retaining in each case one printed product **10**. The printed products **10** rest against one another such that they overlap one another partially, forming an imbricated formation **S** in the process. Each of the printed products **10** thus has, on the side which is directed away from the drawing member **34**, an exposed border region **38**, which is not covered over by an adjacent printed product **10**. Arranged opposite the drawing member **34**, in relation to the movement path of the printed products **10**, are two printing stations **28, 30**, which are spaced apart from one another, as seen in the conveying direction **F**. The first

printing station 28, as seen in the conveying direction F, is intended for printing a contrast panel 14, which forms the text panel 12, onto the border region 38 of the printed products 10 which are moved past it by means of
5 the clamp-type transporter 32. The second printing station 30, which is arranged downstream of the first printing station 28, is intended for printing into the respective contrast panel 14 the information 18' which is assigned to the printed product 10.

10 The apparatus 22 which is shown in Figure 8 likewise has a conveying means 24 which is designed as a clamp-type transporter 32, in the same way as that of Figure 7. The apparatus 22 is also provided with a labeling device 40. The latter has a bearing arrangement
15 42 for receiving a supply roll 44 of a partially transparent strip 46. The strip 46 is guided, around deflecting rollers 48 and a tensioning roller 50, to an application wheel 52 of an application device 54. The application wheel 52, which is driven in rotation in the feed
20 direction z, has rams 56 which are distributed in the circumferential direction and can be retracted and extended in the radial direction. The rams 56 are pre-stressed outwards in the radial direction by means of springs 58 and, in one region of the circumferential
25 path, are retained, for example by a guide means, counter to the spring force in a rest position, in which they are located in the inside in a radial direction. Each of the rams 56 is provided, on its radially outer side, with holes which, in dependence on the rotary position of the
30 application wheel 52, are connected to a negative-pressure source (not shown). On the side which is located opposite the application wheel 52, in relation to the movement path of the printed products 10, the application device 54 has a freely rotatably mounted supporting wheel

60.

Furthermore, the labeling device 40 has a cutting wheel 62, which is of star-like design and whose cutting elements 64, which run parallel to the axis of rotation, are intended for interacting with mating surfaces 66 of the application wheel 52 between the rams 56.

Furthermore, provided between the bearing arrangement 42 and the application wheel 52 is an adhesive-application device 68, which is intended for applying adhesive to the radially outer side of the strip 46, as seen in relation to the application wheel 52.

The labeling device 40 is driven synchronously with respect to the conveying means 24 and is intended for providing each printed product 10, in the exposed border region 38, with a section 70 of the partially transparent strip 46, said section 70 forming a label 70'. This section 70 forms a text panel 12, which serves as a contrast panel 14. In order to provide text on the contrast panel 14, the apparatus has either a printing station 72, which is assigned to the labeling device 40, or a printing station 72', which is assigned to the conveying means 24. The printing station 72 is arranged between the bearing arrangement 42 and the application wheel 52 and is intended for applying text 18 to that side of the partially transparent strip 46 which is directed towards the application wheel 52. The printing station 72', which is arranged downstream of the application wheel 52, as seen in the conveying direction F, is intended, in the same way as the second printing station 30 of the apparatuses according to Figures 6 and 7, for printing the text 18 onto the contrast panel 14, which is formed by in each case one section 70 and is adhesively bonded to the relevant printed product 10. A guide 74,

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which is designed as a guide plate or guide bars, serves for stabilizing printed products 10 in the border region 38 while the text 18 is being printed on.

The labeling device 40 operates as follows.

- 5 The strip, which rests against the application wheel 52 over part of the circumference of the latter is retained in that the relevant rams 56 are connected to the negative-pressure source. The strip 46 is drawn off from the supply roll 44 by virtue of the application wheel 52
- 10 being rotated in the feeder direction Z. Immediately before the strip 46 runs onto the application wheel 52, as seen in the feed direction Z, the relevant ram 56 is displaced into the radially inner, rest position and is then connected to the negative-pressure source. The
- 15 cutting wheel 62 severs a section 70 from the strip 46 using in each case one cutting element 64, which interacts with the relevant mating surface 66. This section is retained by the relevant ram 56, which continues to be connected to the negative-pressure source.
- 20 As soon as this ram 56 has left the region of the cutting wheel 62, the spring 58 displaces it, towards the outside in the radial direction, into the application position, as a result of which, as rotation continues, the section 70 which is retained by said ram, and has previously been
- 25 provided with adhesive on the adhesive-application device 68, is applied to the border region 38 of the relevant printed product 10, and pressed thereon, by the ram. In the process, the openings in the ram 56 have air admitted to them, with the result that the section 70 is released.
- 30 In this case, the supporting wheel 60 prevents the printed products 10 from being able to yield to the force of the rams 56.

Particularly suitable printing stations 28, 30, 72, 72' are those which use ink jet printing.

The method according to the invention may also be used to provide text on printed products which have surfaces which are barely suitable, if at all, for having text applied to them.

5 The contrast-panel-forming, self-adhesive, partially transparent labels may also be drawn off from a carrier strip and applied to the printed products.

10 The labels may be provided with an adhesive which makes it possible for them to be detached from the printed product.

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WHAT IS CLAIMED:

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1. A method of providing text on a printed surface of a printed product comprising the steps of applying a contrast panel to the printed surface by printing the contrast panel onto the printed surface, and

5 forming information within or on the contrast panel, with the contrast panel forming a contrast with respect to the information so that the information can be easily seen and read.

10

2. The method as defined in Claim 1 wherein
the step of forming information within or on the contrast
panel comprises the step of printing the information onto
the contrast panel.

3. The method as defined in Claim 1 wherein
the step of forming information within or on the contrast
panel comprises forming blank areas within the contrast
panel, with the blank areas forming the information.

4. The method as defined in Claim 1 wherein
the contrast panel is partially transparent.

25 5. A method of providing text on a printed
surface of each of a plurality of printed products
comprising the steps of
conveying the printed products along a path of
travel in an overlapping imbricated stream and such that
30 a border region of each printed product is exposed by the
imbricated overlap, while

printing a contrast panel onto the exposed border region of each printed product, and while forming information within or on each contrast

panel, with the contrast panel forming a contrast with respect to the information so that the information can be easily seen and read.

5 6. The method as defined in Claim 5 wherein
the printing step comprises printing the contrast panel
onto the printed surface of each printed product as it
passes a first printing station along the path of travel,
and the forming information step comprises printing the
10 information onto the contrast panel of each printed
product as it passes a second printing station along the
path of travel.

Sub A3 > 7. The method as defined in Claim 5 wherein
15 the forming information step includes forming blank areas
within the contrast panel, with the blank areas forming
the information.

20 8. A method of providing text on each of a
plurality of printed products having printing thereon,
comprising the steps of

conveying the printed products along a path of
travel in an overlapping imbricated stream and such that
a border region of each printed product which has
25 printing thereon is exposed by the imbricated overlap,
while

30 printing a partially transparent contrast panel
onto the border region of each printed product so as to
overlie at least a portion of the printing on the border
region, and so as to allow the printing on the border
region to be seen therethrough, and while

 forming information within or on each printed
contrast panel which forms a contrast with respect to the
contrast panel so that the information can be easily seen

and read

9. The method as defined in Claim 8 wherein
the forming information step comprises printing the
5 information onto the contrast panel.

10. The method as defined in Claim 8 wherein the forming
information step comprises forming blank areas within the
contrast panel during the printing step.

10

Sub A4
11. An apparatus for providing text on a
printed surface of each of a plurality of printed
products comprising

15 a conveyor system for conveying the printed
products along a path of travel in an overlapping
imbricated stream and such that a border region of each
printed product is exposed by the imbricated overlap,
20 printing means disposed along the path of
travel for printing a contrast panel onto the exposed
border region of each printed product and for forming
information within or on each contrast panel, with the
contrast panel forming a contrast with respect to the
information so that the information can be easily seen
and read.

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12. The apparatus as defined in Claim 11
wherein the printing means comprises a first printing
station disposed along the path of travel for printing
the contrast panel, and a second printing station
30 disposed along the path of travel downstream of the first
printing station for printing the information onto the
contrast panel.

13. The apparatus as defined in Claim 11

wherein the printing means comprises a printing station disposed along the path of travel which acts to print each contrast panel with blank areas, with the blank areas forming the information.

5

14. The apparatus as defined in Claim 11 wherein the conveyor system comprises a plurality of clamps arranged one behind the other in the conveying direction for gripping respective ones of the printed products.

10 products.

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METHOD AND APPARATUS FOR
PROVIDING TEXT ON PRINTED PRODUCTS

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Abstract of the Disclosure

A conveyor system conveys a plurality of printed products along a path of travel in an imbricated stream and such that a border region of each printed product is exposed by the imbricated overlap. A contrast panel (14), which forms a text panel (12), is applied to the exposed border region of each printed product (10). The contrast panel is provided with the text (18) and the contrast panel forms a contrast with respect to the text (18), with the result that the latter can be immediately seen and read easily. In one embodiment, the contrast panel is applied by printing, and in another embodiment, the contrast panel comprises a separate label which is adhesively applied.

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DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

Attorney Docket No. 4183-60

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled METHOD AND APPARATUS FOR PROVIDING TEXT ON PRINTED PRODUCTS, the specification of which

[X] is attached hereto

OR

[] was filed on _____ as United States Application No. _____ or PCT International Application Number _____ and was amended on ____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37 Code of Federal Regulations, § 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate, or of any PCT International application having a filing date before that of the application on which priority is claimed.

1997 1150/97	Switzerland	05/16/97	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed
			<input type="checkbox"/> Yes <input type="checkbox"/> No
Number	Country	MM/DD/YYYY Filed	Priority Claimed

ENGLISH LANGUAGE DECLARATION CONTINUED

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

None	
Application Number(s)	Filing Date (MM/DD/YYYY)
Application Number(s)	Filing Date (MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application (37 C.F.R. § 1.63(d)).

None		
Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned
Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned
Appln. Serial No.	Filing Date	Status Patented/Pending/Abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

ENGLISH LANGUAGE DECLARATION CONTINUED

POWER OF ATTORNEY: As a named inventor, I hereby appoint the practitioners associated with the Customer Number provided below to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith, and direct that all correspondence be addressed to that Customer Number:

Customer Number 000826

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Registration No. 24,357
Tel (704) 331-6000
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Inventor's

Signature:

Markus Scheuber

Date: 23.4.1998

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Citizenship: Swiss

Post Office Address: Muelihalde 37
8484 Weisslingen, Switzerland

Full name of second inventor: Hans Frei

Inventor's

Signature:

Hans Frei

Date: 23.4.1998

Residence: 8618 Oetwil am See, Switzerland

Citizenship: Swiss

Post Office Address: Kreuzlen 507
8618 Oetwil am See, Switzerland

CBE:317938

Declaration and Power of Attorney for Patent Application

Erklärung für Patentanmeldungen mit Vollmacht

German Language Declaration

Als nachstehend benannter Erfinder erkläre ich hiermit an
Eides Statt:

daß mein Wohnsitz, meine Postanschrift und meine Staatsangehörigkeit den im nachstehenden nach meinem Namen aufgeföhrten Angaben entsprechen, daß ich nach bestem Wissen der ursprüngliche, erste und alleinige Erfinder (falls nachstehend nur ein Name angegeben ist) oder ein ursprünglicher, erster und Miterfinder (falls nachstehend mehrere Namen aufgeföhr sind) des Gegenstandes bin, der hiermit beansprucht wird und für den ein Patent für die Erfindung mit folgender Bezeichnung begehrt wird:

deren Beschreibung hier beigefügt ist, es sei denn (in diesem Falle Zutreffendes bitte ankreuzen), diese Erfindung

wurde angemeldet am _____ unter der US-
Anmeldenummer oder unter der Internationalen
Anmeldenummer im Rahmen des Vertrags über die
Zusammenarbeit auf dem Gebiet des Patentwesens
(PCT)

_____ und am
abgeändert (falls zutreffend).

Ich bestätige hiermit, daß ich den Inhalt der oben angegebenen Beschreibung, einschließlich der Ansprüche, die eventuell durch eine oben erwähnte Änderung abgeändert wurde, durchgesehen und verstanden habe.

Ich erkenne meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Titel 37, Code of Federal Regulations, § 1.56 von Belang sind.

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

METHOD AND APPARATUS FOR PROVIDING TEXT ON PRINTED PRODUCTS

the specification of which is attached hereto unless the following box is checked:

was filed on May 14, 1998
as United States Application Number or PCT
International Application Number
09/078,914 and was amended on
(if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

German Language Declaration

Ich beanspruche hiermit ausländische Prioritätsvorteile gemäß Title 35, US-Code, § 119(a)-(d), bzw. § 365(b) aller unten aufgeführten Auslandsanmeldungen für Patente oder Erfinderurkunden, oder § 365(a) aller PCT internationalen Anmeldungen, welche wenigstens ein Land außer den Vereinigten Staaten von Amerika benennen, und habe nachstehend durch Ankreuzen sämtliche Auslandsanmeldungen für Patente bzw. Erfinderurkunden oder PCT internationale Anmeldungen angegeben, deren Anmeldetag dem der Anmeldung, für welche Priorität beansprucht wird, vorangeht.

Prior Foreign Applications (Frühere ausländische Anmeldungen)

<u>1997 1150/97</u>	<u>Switzerland</u>
Number (Nummer)	(Country) (Land)

Number (Nummer)	(Country) (Land)
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Ich beanspruche hiermit Prioritätsvorteile unter Title 35, US-Code, § 119(e) aller US-Hilfsanmeldungen wie unten aufgezählt.

<u>None</u>	
(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)
<u> </u>	
(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

Ich beanspruche hiermit die mir unter Title 35, US-Code, § 120 zustehenden Vorteile aller unten aufgeführten US-Patentanmeldungen bzw. § 365(c) aller PCT internationalen Anmeldungen, welche die Vereinigten Staaten von Amerika benennen, und erkenne, insofern der Gegenstand eines jeden früheren Anspruchs dieser Patentanmeldung nicht in einer US-Patentanmeldung, bzw. PCT internationalen Anmeldung in einer gemäß dem ersten Absatz von Title 35, US-Code, § 112 vorgeschriebenen Art und Weise offenbart wurde, meine Pflicht zur Offenbarung jeglicher Informationen an, die zur Prüfung der Patentfähigkeit in Einklang mit Title 37, Code of Federal Regulations, § 1.56 von Belang sind und die im Zeitraum zwischen dem Anmeldetag der frühen Patentanmeldung und dem nationalen oder im Rahmen des Vertrags über die Zusammenarbeit auf dem Gebiet des Patentwesens (PCT) gültigen internationalen Anmeldetags bekannt geworden sind.

<u>None</u>	
(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)
<u> </u>	
(Application No.) (Aktenzeichen)	(Filing Date) (Anmeldetag)

Ich erkläre hiermit, daß alle in der vorliegenden Erklärung von mir gemachten Angaben nach bestem Wissen und Gewissen der Wahrheit entsprechen, und ferner daß ich deine eidesstattliche Erklärung in Kenntnis dessen ablege, daß wissentlich und vorsätzlich falsche Angaben oder dergleichen gemäß § 1001, Title 18 des US-Code strafbar sind und mit Geldstrafe und/oder Gefängnis bestraft werden können und daß derartige wissentlich und vorsätzlich falsche Angaben die Rechtswirksamkeit der vorliegenden Patentanmeldung oder eines aufgrund deren erteilten Patentes gefährden können.

I hereby claim foreign priority under Title 35, United States Code, § 119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or § 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or PCT International application having a filing date before that of the application on which priority is claimed.

Priority Not Claimed
Priorität nicht beansprucht

<u>05/16/97</u>	<input type="checkbox"/>
(Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)	

<u> </u>	<input type="checkbox"/>
(Day/Month/Year Filed) (Tag/Monat/Jahr der Anmeldung)	

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s), or § 365(c) of any PCT International application designating the United States, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

<u> </u>	<input type="checkbox"/>
(Status) (patented, pending, abandoned) (Status) (patentiert, schwebend, aufgegeben)	

<u> </u>	<input type="checkbox"/>
(Status) (patented, pending, abandoned) (Status) (patentiert, schwebend, aufgegeben)	

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements we made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

German Language Declaration

VERTRETUNGSVOLLMACHT: Als benannter Erfinder beauftrage ich hiermit den (die) nachstehend aufgeführten Patentanwalt (Patentanwälte) und/oder Vertreter mit der Verfolgung der vorliegenden Patentanmeldung sowie mit der Abwicklung aller damit verbundenen Angelegenheiten vor dem US-Patent- und Markenamt: (Name(n) und Registrationsnummer(n) auflisten)

Postanschrift:

Telefonische Auskünfte: (Name and Telefonnummer)

POWER OF ATTORNEY: As a named inventor, I hereby appoint the following attorney(s) to prosecute this application and transact all business in the Patent and Trademark office connected therewith: (list name and registration number)

Charles B. Elderkin
Reg. No. 24,357 and all attorneys registered with Customer Number 000826

Send Correspondence to:
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Attn: Charles B. Elderkin

Direct Telephone Calls to: (name and telephone number)
Charles B. Elderkin
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Vor- und Zuname des einzigen oder ersten Erfinders		Full name of first inventor	
		Markus Scheuber	
Unterschrift des Erfinders	Datum	Inventor's signature	Date
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Staatsangehörigkeit		Citizenship	Swiss
Postanschrift		Post Office Address	Muelihalde 37
			8484 Weisslingen, Switzerland
Vor- und Zuname des Miterfinders (falls zutreffend)		Full name of joint inventor, if any	
		Hans Frei	
Unterschrift des Erfinders	Datum	Inventor's signature	Date 26.10.93
Wohnsitz		Residence	8618 Oetwil am See, Switzerland
Staatsangehörigkeit		Citizenship	Swiss
Postanschrift		Post Office Address	Kreuzlen 507
			8618 Oetwil am See, Switzerland

(Im Falle dritter und weiterer Miterfindler sind die entsprechenden Informationen und Unterschriften hinzuzufügen.)

(Supply similar information and signature for third and subsequent joint inventors.)

CBE:4387573